

Title (en)  
Copolymers, their mixtures with polymers of esters of (meth)acrylic acid, and their use in improving the flowability of crude oil at a low temperature.

Title (de)  
Neue Copolymere, deren Mischungen mit Poly(meth)acrylsäureestern und deren Verwendung zur Verbesserung der Fließfähigkeit von Rohölen in der Kälte.

Title (fr)  
Copolymère, leur mélanges avec des polymères d'esters d'acide (méth)acrylique et leur utilisation pour modifier la fluidité d'huile brute à température basse.

Publication  
**EP 0376138 B1 19940119 (DE)**

Application  
**EP 89123521 A 19891220**

Priority  
DE 3843922 A 19881224

Abstract (en)  
[origin: EP0376138A2] Copolymers comprising from 50 to 99.9 % by weight of a C14-C22-alkyl (meth)acrylate and from 50 to 0.1 % by weight of a comonomer of the formula I <IMAGE> where R1 is hydrogen or methyl and R2 is a group of the formula <IMAGE> R3 is C1-C80-alkyl, C2-C80-alkenyl, C5- or C6-cycloalkyl or cycloalkenyl, which may be substituted by alkyl groups, aralkyl, alkaryl or the radical of a dimeric fatty acid, maleic acid, succinic acid or a C6-C22-alkenylsuccinic acid, R4 is C1-C80-alkyl, C1-C80-alkenyl, C5- or C6-cycloalkyl or cycloalkenyl, which may be substituted by alkyl groups, aralkyl or alkaryl, R5 is C6-C20-alkyl, m is 2 or 3, n is a number from 1 to 30, and x is a number from 2 to 20, and mixtures of these copolymers with poly(C14-C22-alkyl (meth)acrylates) are highly suitable for improving the flowability of crude oils. Such copolymers also include those which contain a comonomer of the formula 1 in which R2 is additionally a group of the formula <IMAGE>

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Cited by  
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DE

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